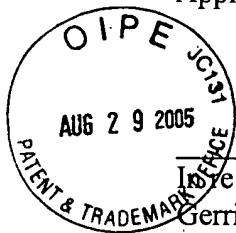


*IPU*



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Patent Application of:  
Gerrit Luinstra et al.

Application No.: 10/523264 ✓

Confirmation No.: 1821

Filed: February 1, 2005

Art Unit: N/A

For: CATALYST FOR THE CARBONYLATION  
OF OXIRANES

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this

application by this firm) to our Deposit Account No. 03-2775, under Order No. 13156-00002-US.

Respectfully submitted,

By

Ashley I. Pezzner

Registration No.: 35,646

CONNOLLY BOVE LODGE & HUTZ LLP

1007 North Orange Street

P.O. Box 2207

Wilmington, Delaware 19899

(302) 658-9141

(302) 658-5614 (Fax)

Attorney for Applicant



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/523264-Conf. #1821
				Filing Date	February 1, 2005
				First Named Inventor	Gerrit Luinstra
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	13156-00002-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA*	US-6,262,278	07-17-2001	Jacobsen et al.	
	AB*	US-20030162961-A1	08-28-2003	Coates et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	Kamiya et al., "The Reaction Of Small Ring Compound With Carbon Monoxide The Carbonylation Of Oxirane", <i>Chemistry Letters</i> , pp. 1549-1552 (1980).	
	CB	Chem. Abstracts, 117, No. 26, Abstract No. 263541 (1992).	
	CC	Ohba et al., "Oxalate-Bridged Dinuclear Cr(III)-M(II) (M = Cu, Ni, Co, Fe, Mn) Complexes: Synthesis, Structure, and Magnetism", <i>Inorg. Chem.</i> , Vol. 32, pp. 5385-5390 (1993).	
	CD	Atwood et al., "A New Class of Aluminum Cations upon Tetradentate (N <sub>2</sub> O <sub>2</sub> ) Chelating Ligands", <i>Inorg. Chem.</i> , Vol. 35, pp. 63-70 (1996).	
	CE	Hinterding et al., "Regioselective Carbomethoxylation of Chiral Epoxides: A New Route to Enantiomerically Pure $\beta$ -Hydroxy Esters", <i>J. Org. Chem.</i> , Vol. 64, pp. 2164-2165 (1999).	
	CF	Jacobsen, "Asymmetric Catalysis of Epoxide Ring-Opening Reactions", <i>Acc. Chem. Res.</i> , Vol. 33, pp. 421-431 (2000).	
	CG	Lee et al., "Synthesis of $\beta$ -Lactones by the Regioselective, Cobalt and Lewis Acid Catalyzed Carbonylation of Simple and Functionalized Epoxides", <i>J. Org. Chem.</i> , Vol. 66, pp. 5424-5426 (2001).	
	CH	Paddock et al., "Chemical CO <sub>2</sub> Fixation: Cr(III) Salen Complexes as Highly Efficient Catalysts for the Coupling of CO <sub>2</sub> and Epoxides", <i>J. Am. Chem. Soc.</i> , Vol. 123, pp. 11498-11499 (2001).	
	CI	Getzler et al., "Synthesis of $\beta$ -Lactones: A Highly Active and Selective Catalyst for Epoxide Carbonylation", <i>J. Am. Chem. Soc.</i> , Vol. 124, pp. 1174-1175, (2002).	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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413700



Application No. (if known): 10/523264

Attorney Docket No.: 13156-00002-US

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